FIG.1A

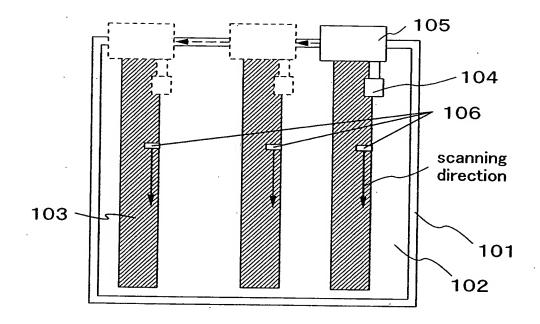


FIG.1B

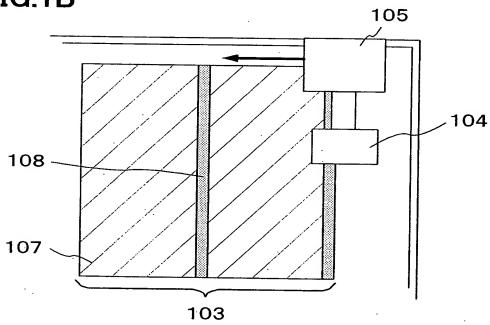


FIG.2A

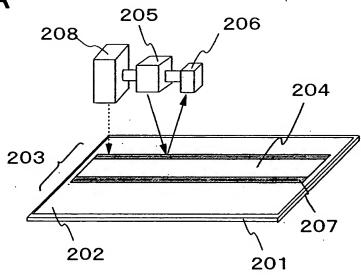
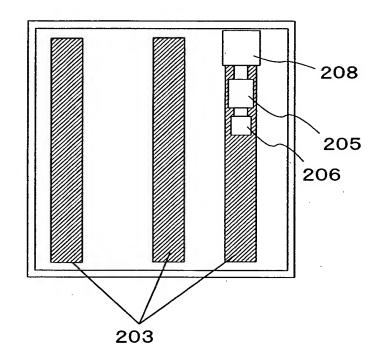


FIG.2B



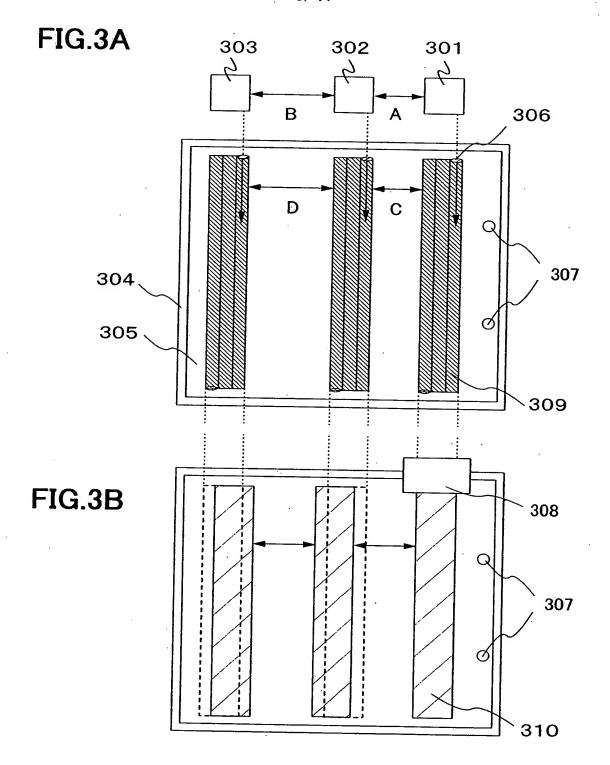


FIG.4

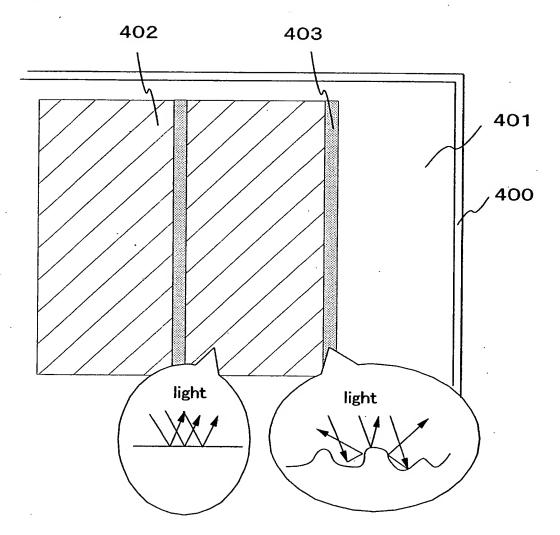
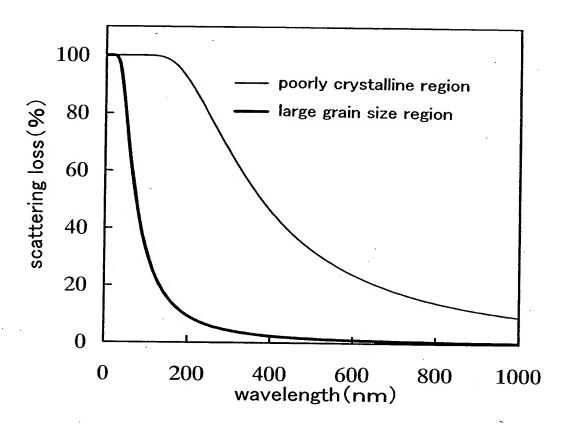
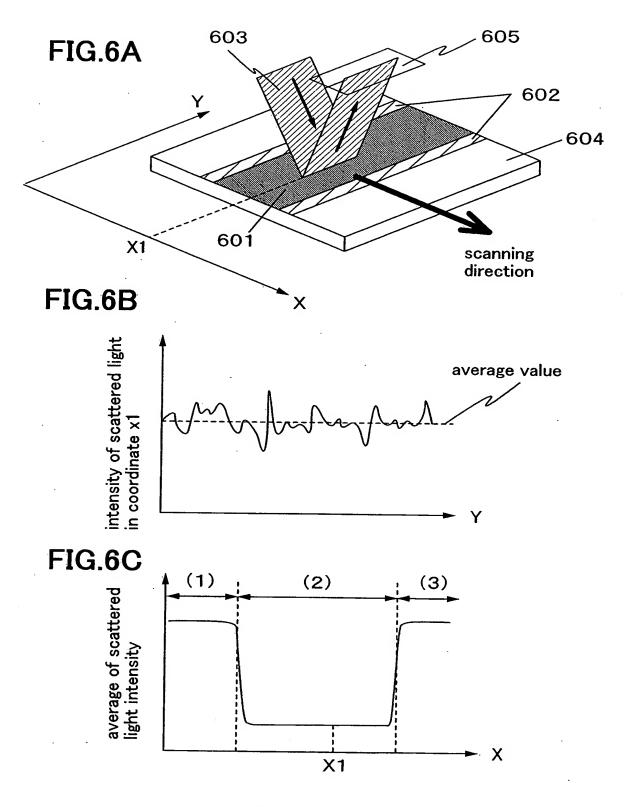
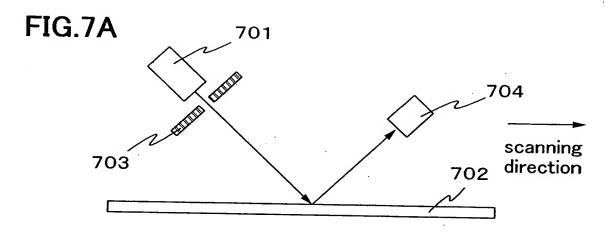


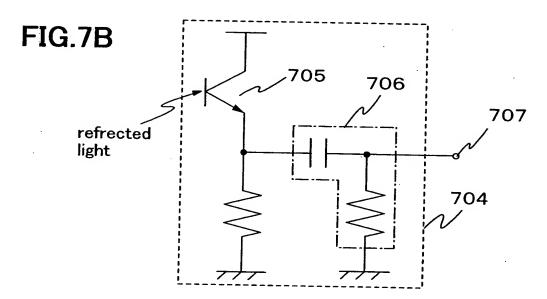
FIG.5

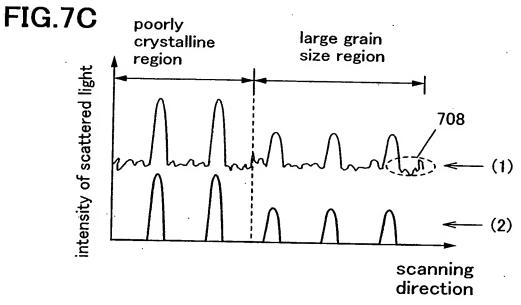




(1), (3):large grain size region (2):poorly crystalline region







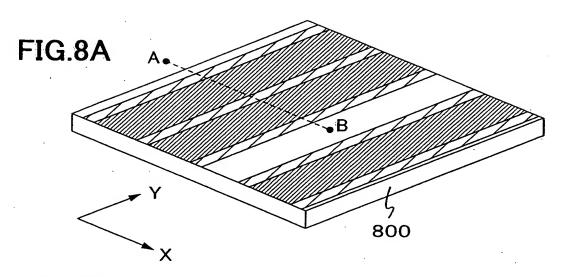
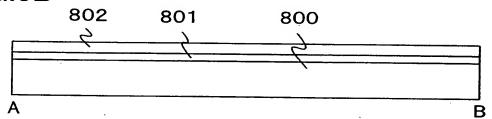


FIG.8B



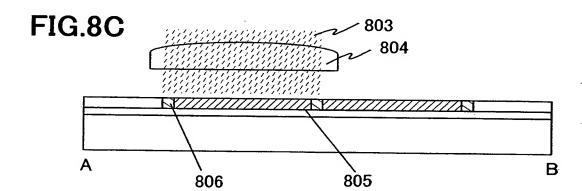
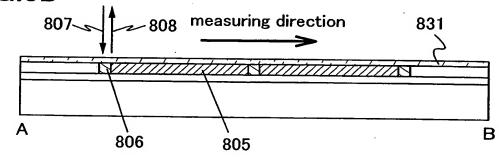
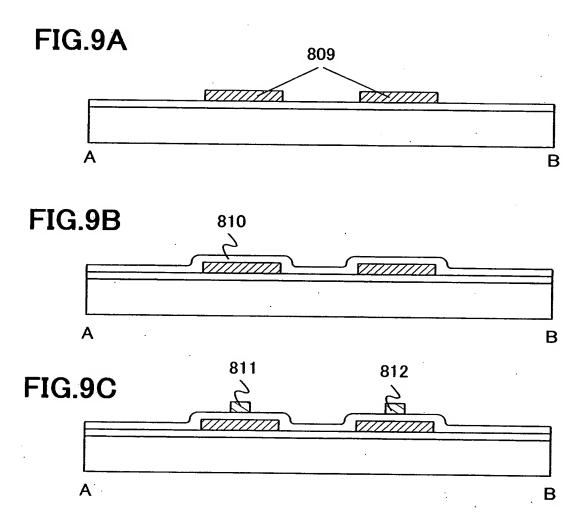


FIG.8D







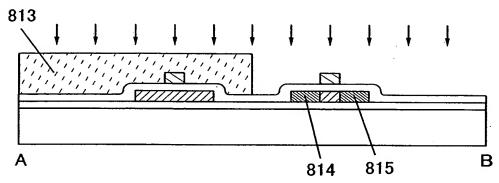


FIG.10B

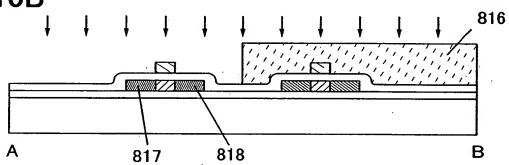


FIG.10C

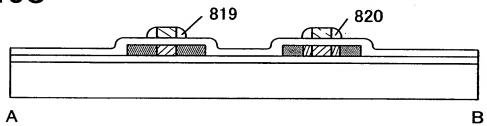
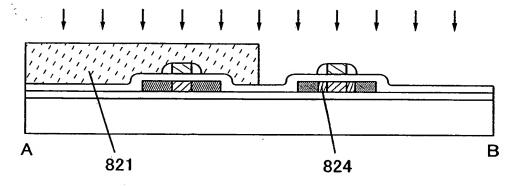


FIG.10D





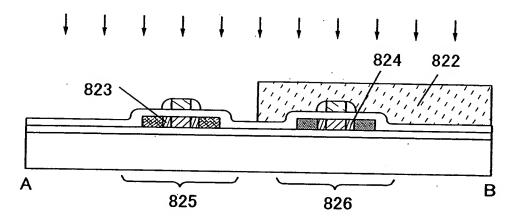


FIG.11B

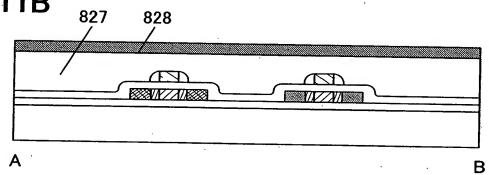


FIG.11C

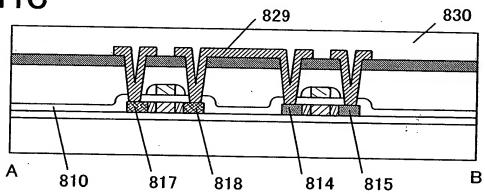
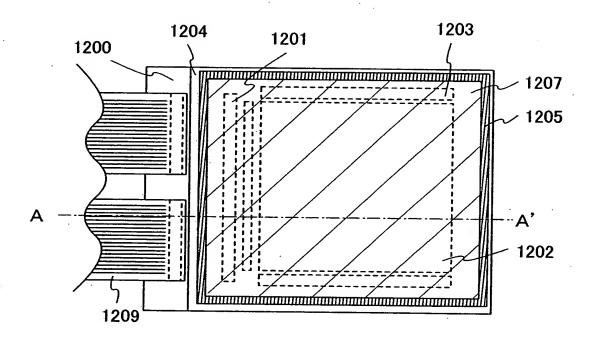
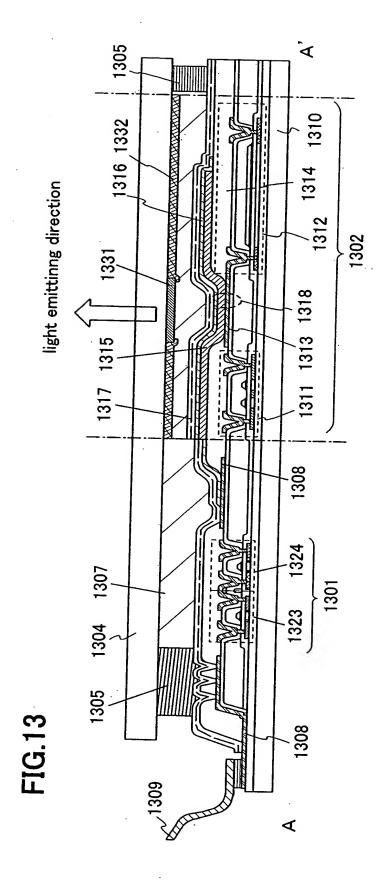
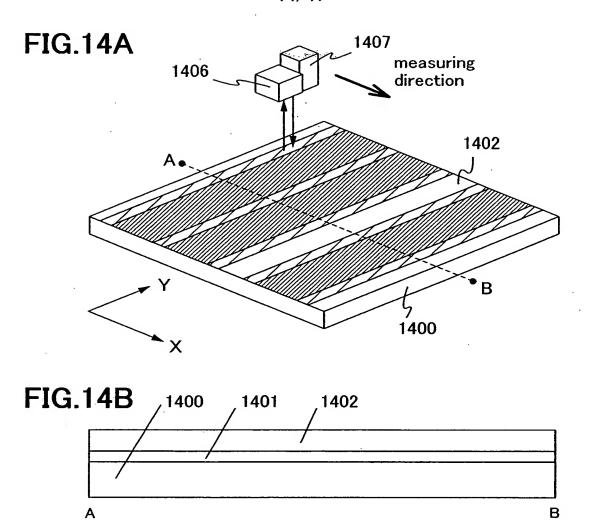
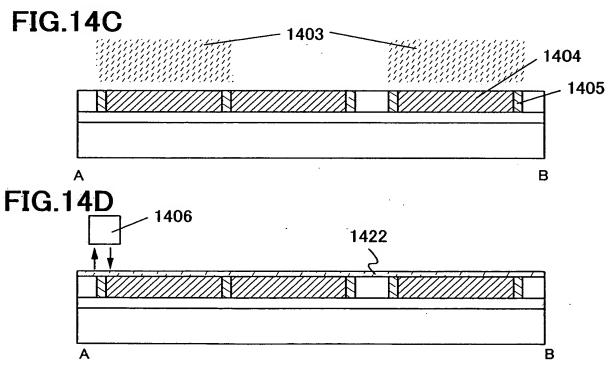


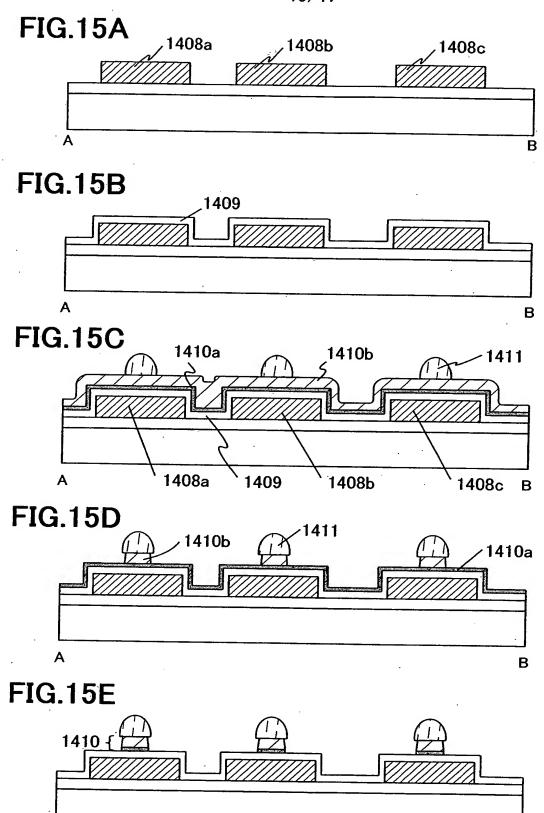
FIG.12











В

FIG.16A

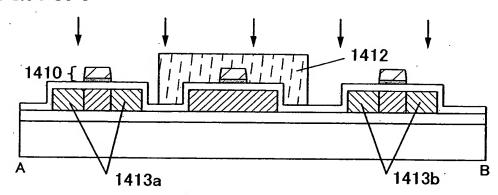


FIG.16B

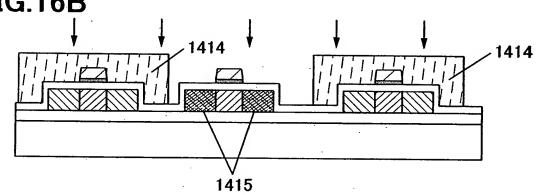


FIG.16C

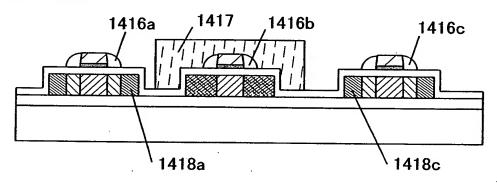


FIG.17A

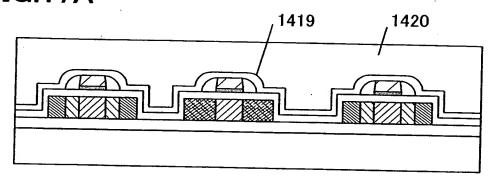
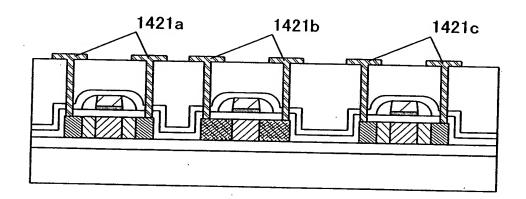


FIG.17B



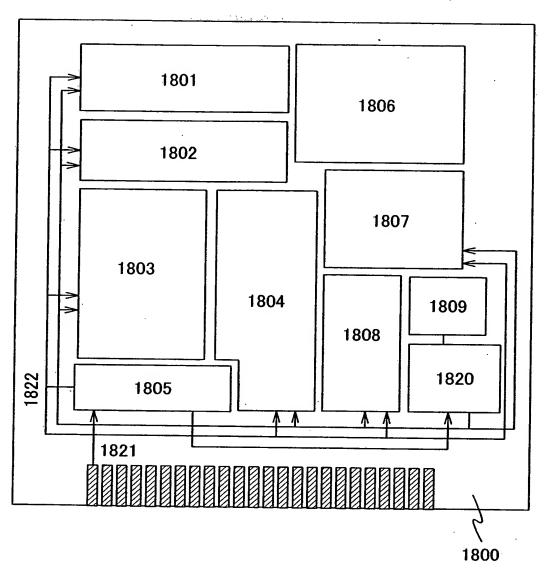
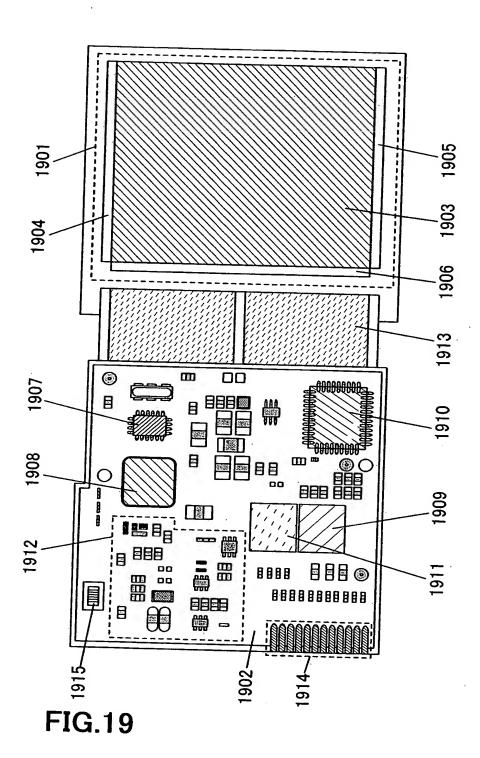


FIG.18



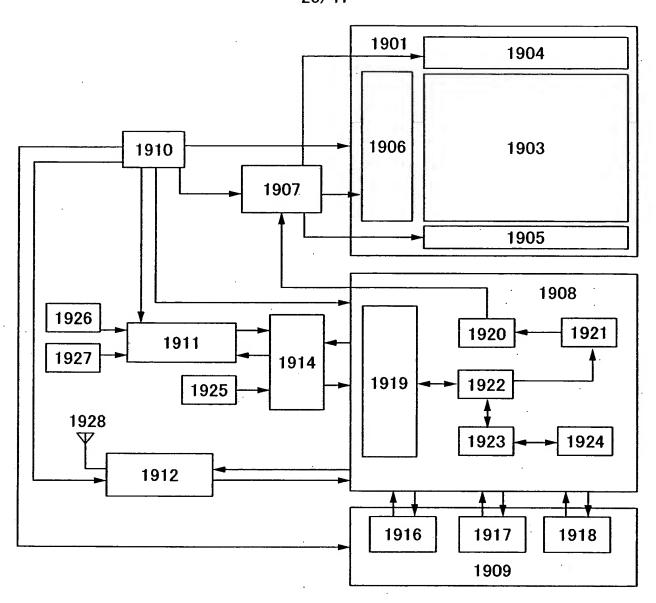


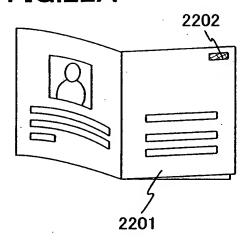
FIG.20

FIG.21A FIG.21B **~2104** FIG.21D **FIG.21C**

FIG.21E

FIG.21F CIIID 2141-

FIG.22A



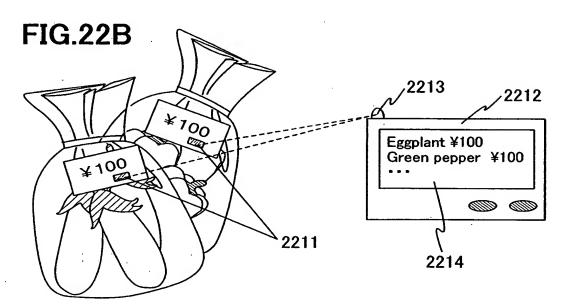
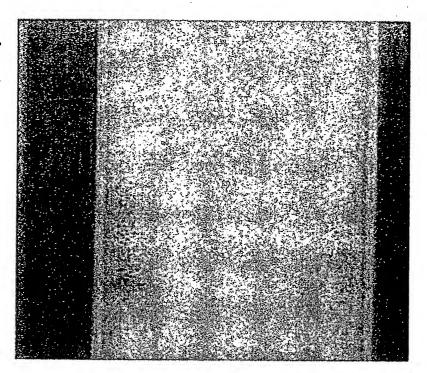
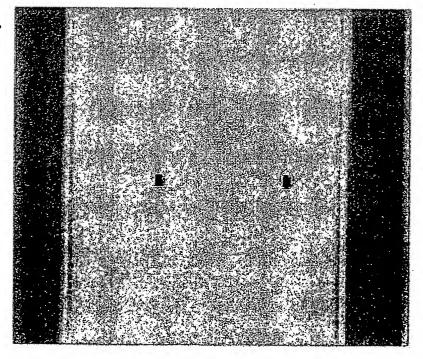


FIG. 23A

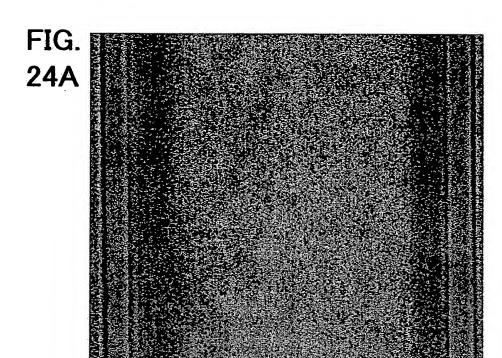


poorly crystalline region in opposite ends

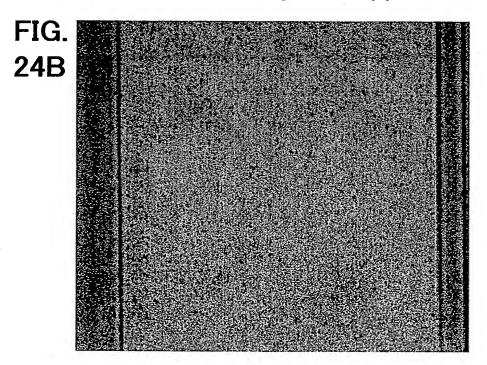
FIG. 23B



wholly large grain size crystal



poorly crystalline region in opposite ends



wholly large grain size crystal

FIG.25A

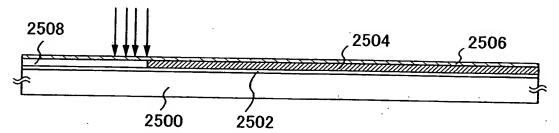
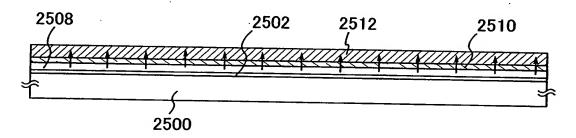
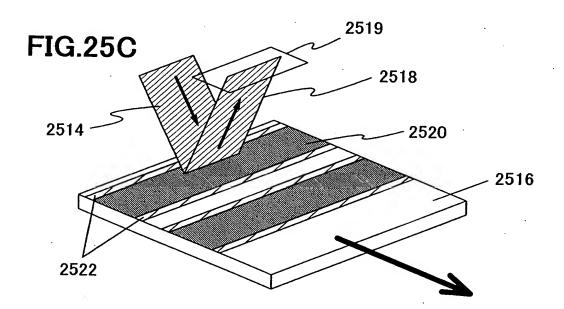


FIG.25B







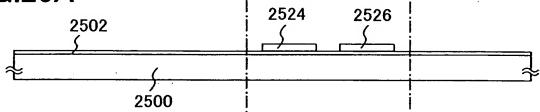
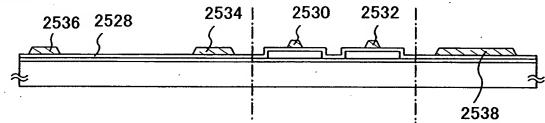


FIG.26B





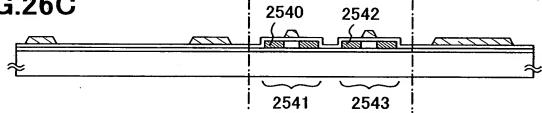
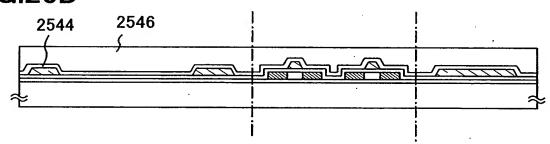
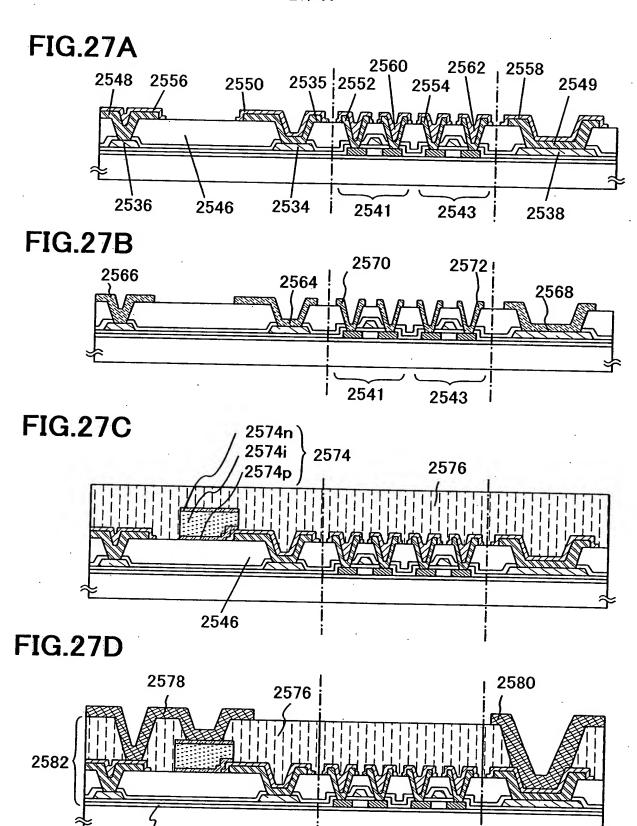


FIG.26D





2502

FIG.28A

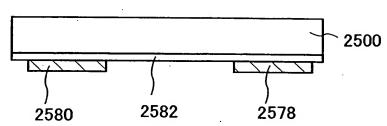


FIG.28B

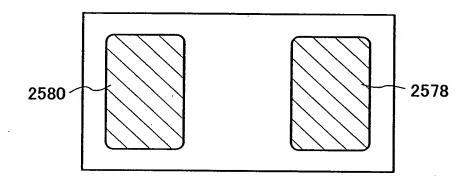


FIG.28C

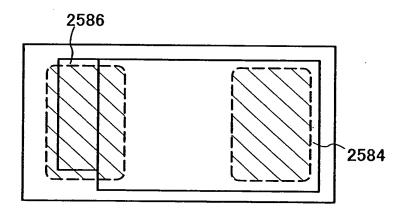


FIG.29A

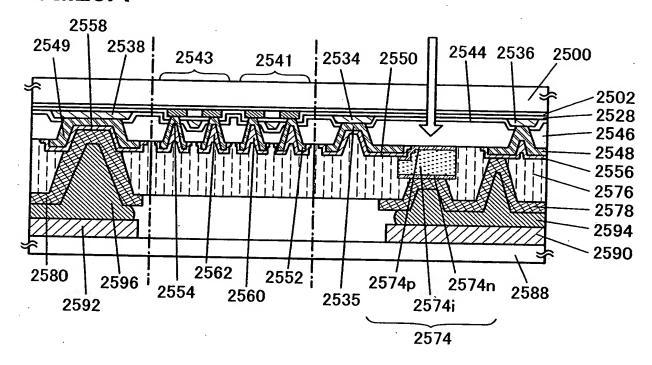
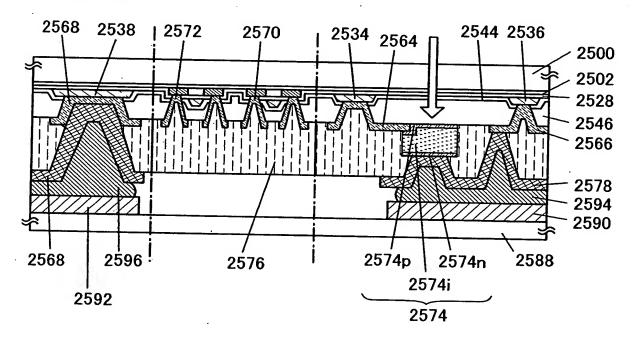
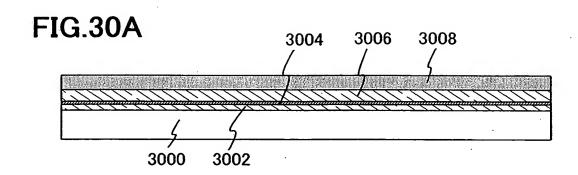
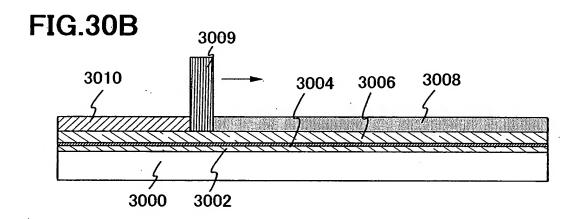


FIG.29B









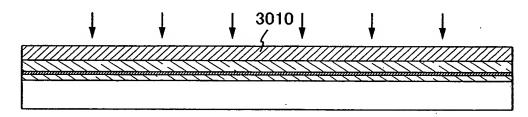
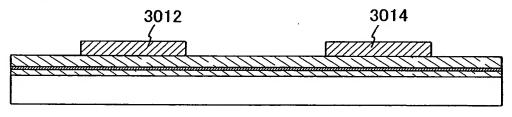
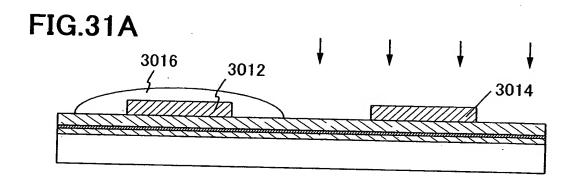
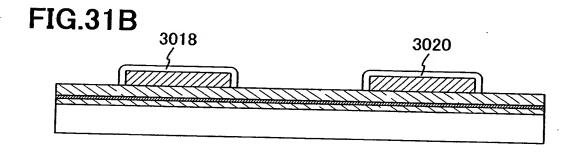


FIG.30D







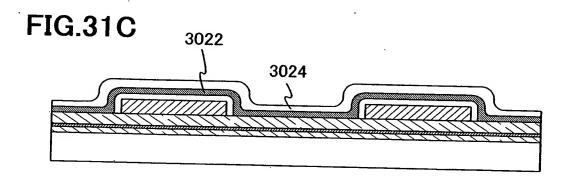


FIG.31D

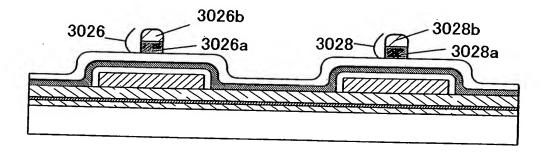


FIG.32A

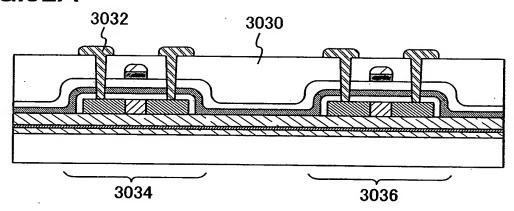
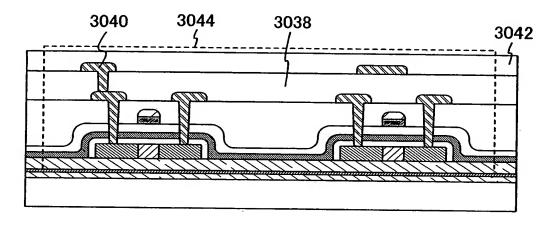
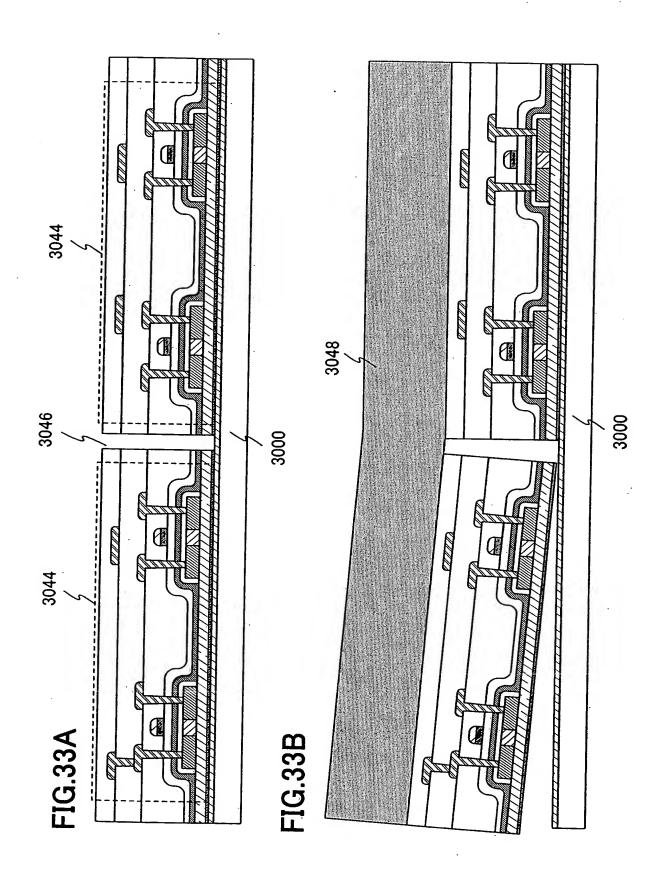


FIG.32B





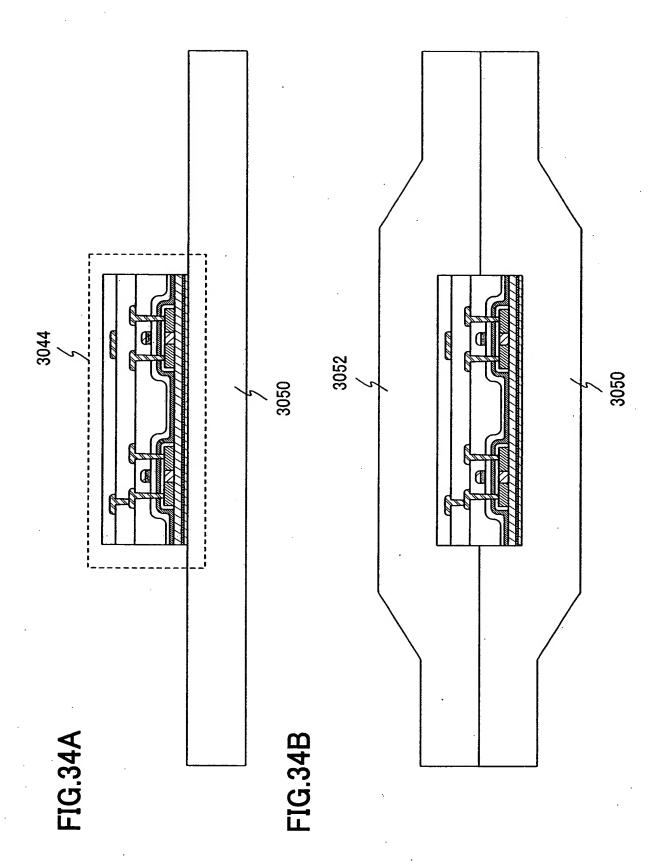


FIG.35A

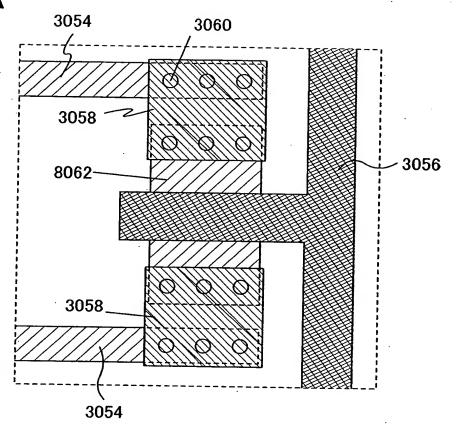
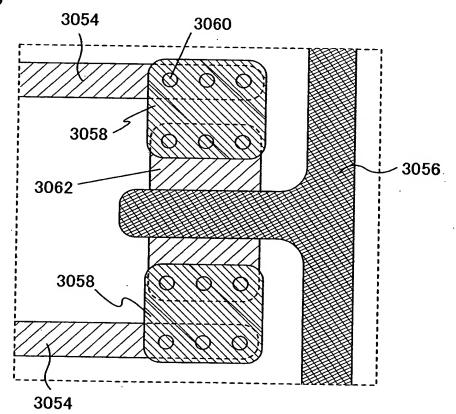


FIG.35B



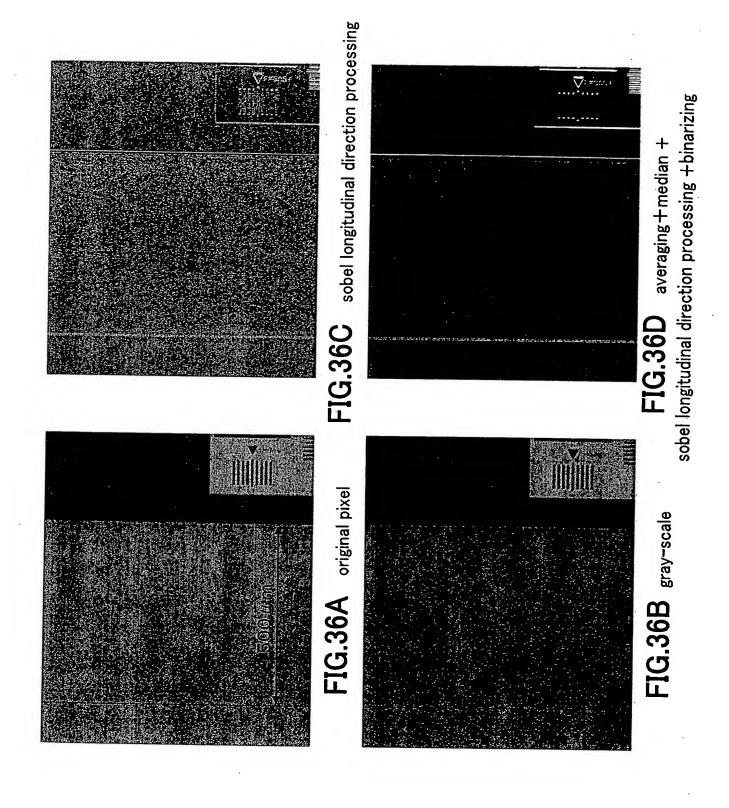


FIG.37A

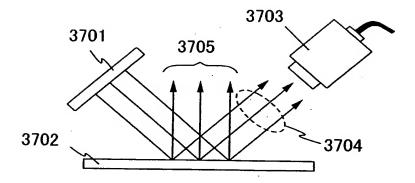
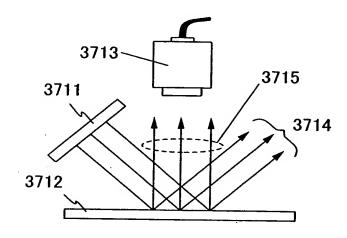
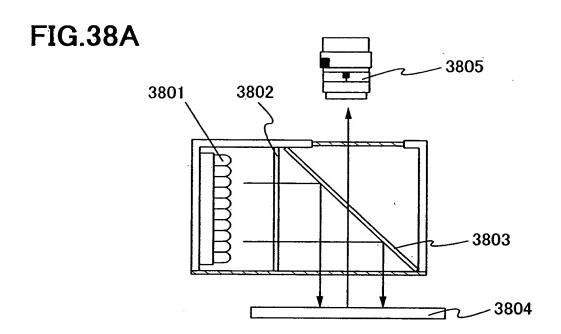
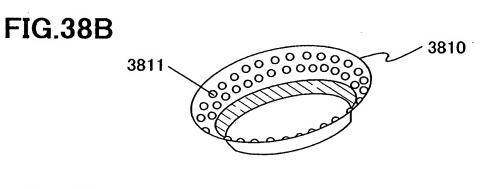
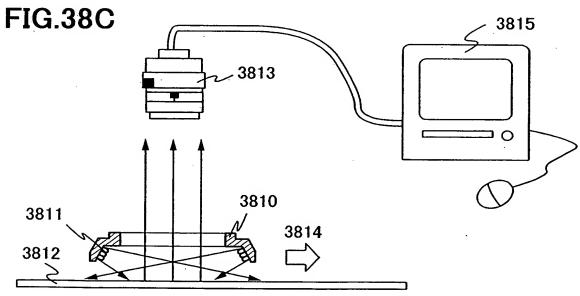


FIG.37B









5

EXPLANATION OF REFERENCE

101: substrate; 102: non-single crystal semiconductor film, 103: laser irradiation region, 104: CCD camera, 105: light source for light-exposure, 106: beam spot, 107: large grain size region, 108: poorly crystalline region, 201: substrate, 202: non-single crystal semiconductor film, 203: laser irradiation region, 204: large grain size region, 205: laser, 206: optical sensor, 207: poorly crystalline region, 208: light source for light-exposure, 301: solid state laser, 302: solid state laser, 303: solid state laser, 304: substrate, 305: amorphous semiconductor film, 306: beam spot, 307: marker, 308: light source for light-exposure, 309: laser irradiation region, 310: exposed region, 400: substrate, 401: semiconductor film, 402: large grain size region, 403: poorly crystalline region, 601: large grain size region, 602: poorly crystalline region, 603: light, 604: substrate, 605: CCD camera, 701: laser oscillator, 702: irradiated surface, 703: slit, 704: optical sensor, 705: photo detector, 706: high pass filter, 707: output terminal, 800: substrate, 801: base film, 802: amorphous semiconductor film, 803: laser, 804: cylindrical lens, 805: large grain size region, 806: poorly crystalline region, 807: laser light, 808: reflected light, 809: semiconductor film, 810: gate insulating film, 811: gate electrode, 812: gate electrode, 813: resist, 814: source region, 815: drain region, 817: source region, 818: drain region, 819: side wall, 820: side wall, 821: resist, 822: resist, 823: LDD region, 824: LDD region, 825: p-channel TFT, 826: n-channel TFT, 827: insulating film, 828: insulating film, 829: wiring, 830: insulating film, 1200: substrate, 1201: source signal line driver circuit, 1202: pixel portion, 1203: gate signal line driver circuit, 1204: sealing substrate, 1205: first sealing material, 1207: second sealing material, 1208: connection wire, 1209: FPC, 1301: source side driver circuit, 1302: pixel portion, 1304: sealing substrate, 1305: first sealing material, 1306: connection wire, 1307: second sealing material, 1308: connection wire, 1309: FPC, 1310: substrate, 1311: switching TFT, 1312: current controlling TFT, 1313: first electrode (anode), 1314: insulator, 1315: electroluminescent layer, 1316: second electrode (cathode), 1317: transparent protective layer, 1318: electroluminescence element, 1323: n-channel TFT, 1324: p-channel TFT, 1331: coloring layer, 1332: light shielding layer, 1400: substrate, 1401: base insulating film, 1402: amorphous semiconductor film, 1403: laser, 1404: large grain size region, 1405: poorly crystalline region, 1406: photo detector, 1407: light source for light-exposure, 1408a: island-like semiconductor film, 1408b: island-like semiconductor film, 1408c: island-like semiconductor film, 1409: gate insulating film, 1410a: first conductive film, 1410b: second conductive film, 1411: resist mask, 1412: resist mask, 1413a: impurity region, 1413b: impurity region, 1414: resist mask, 1415: impurity region, 1416a: side wall, 1416b: side wall, 1416c:

side wall, 1417: resist mask, 1418a: high concentration impurity region, 1418b: high concentration impurity region, 1419: first interlayer insulating film, 1420: second interlayer insulating film, 1421a: wiring, 1421b: wiring, 1421c: wiring, 1800: substrate, 1801: arithmetic logic unit, 1802: ALU controller, 1803: instruction decoder, 1804 interrupt controller, 1805: timing controller, 1806: register, 1807: register controller, 1808: bus I/F, 1809: ROM, 1820: ROM I/F, 1821: CLK1, 1822: CLK2, 1901: display panel, 1902: printed wiring board, 1903: pixel portion, 1904: first scanning line driver circuit, 1905: second scanning line driver circuit, 1906: signal line driver circuit, 1907: controller, 1908: CPU, 1909: memory, 1910: power supply circuit, 1911: speech processing circuit, 1912: send/receive circuit, 1913: FPC, 1914:I/F, 1915: antenna port, 1901: display panel, 1903: pixel portion, 1904: first scanning line driver circuit, 1905: second scanning line driver circuit, 1906: signal line driver circuit, 1907: controller, 1908: CPU, 1909: memory, 1910: power supply circuit, 1911: speech processing circuit, 1912: send/receive circuit, 1914: interface portion, 1916: VRAM, 1917: DRAM, 1918: flash memory, 1919: I/F, 1920: control signal generation circuit, 1921: decoder, 1922: register, 1923: arithmetic logic unit, 1924: RAM, 1925: input means, 1926: microphone, 1927: speaker, 1928: antenna, 2101: chassis, 2102: support, 2103: display portion, 2104: speaker portion, 2105: video input terminal, 2111: chassis, 2112: display portion, 2113: keyboard, 2114: external connection port, 2115: pointing mouse, 2121: chassis, 2122: display portion, 2123: operation key, 2124: sensor portion, 2131: chassis, 2132:display portion, 2133: lens, 2134: operation key, 2135: shutter, 2141; main body, 2142: display portion, 2143: chassis, 2144: external connection port, 2145: remote control receive section, 2146: image receiving portion, 2147: battery, 2148: audio input portion, 2149: operation key, 2150: eye piece portion, 2201: passport, 2202: wireless IC tag, 2211: wireless IC tag, 2212: reader, 2213: antenna portion, 2214: display portion, 2500: substrate, 2502: base film, 2504: amorphous semiconductor film, 2506: catalyst, 2508: polycrystalline silicon film, 2510: barrier layer, 2512: amorphous silicon film, 2514: light emitted from light source, 2516: semiconductor film, 2518: reflected light, 2519: detecting element, 2520: large grain size region, 2522: poorly crystalline region, 2524: island-like semiconductor film, 2526: island-like semiconductor film, 2528: gate insulating film, 2530: gate electrode, 2532: gate electrode, 2534: wiring, 2536: wiring, 2538: terminal electrode, 2540: source region or drain region, 2542: source region or drain region, 2541: TFT, 2543: TFT, 2544: second interlayer insulating film, 2546: third interlayer insulating film, 2548: connection electrode, 2550: protective electrode, 2552: electrode which is connected to S/D region of TFT 2541, 2554: electrode which is connected to S/D region of TFT 2543, 2556: protective electrode, 2558: protective electrode, 2560:

protective electrode, 2562: protective electrode, 2564: wiring, 2566: connection electrode, 2568: terminal electrode, 2570: S/D electrode of TFT 2541, 2572: TFT, 2543: S/D electrode, 2574: semiconductor layer, 2574p :p-type semiconductor layer, 2574i: i-type semiconductor layer, 2574n: n-type semiconductor layer, 2576: sealing layer, 2578: terminal electrode, 2580: terminal electrode, 2582: device formation layer, 2584: light-receiving portion, 2586: amplifier circuit portion, 2588: substrate, 2590: electrode, 2592: electrode, 2594: solder, 2596: solder, 3701: area light, 3702: semiconductor film, 3703: photo detector, 3704: specular reflection light, 3705: diffuse reflection light, 3711: area light, 3712: semiconductor film, 3713: photo detector, 3714: specular reflection light, 3715: diffuse reflection light, 3801: area light, 3802: diffuser, 3803: half mirror, 3804: semiconductor film, 3805: camera, 3810: lighting device, 3811: LED, 3812: semiconductor film, 3813: photo detector, 3814: direction perpendicular to scan direction of beam spot, 3815: information processor, 8000: first substrate, 8002: insulating film, 8004: stripping layer, 8006: insulating film (base film), 8008: semiconductor film, 8009: laser, 8010: crystalline semiconductor film, 8012: first semiconductor film, 8014: second semiconductor film, 8016: resist mask, 8018: first insulating film, 8020: first insulating film, 8022: second insulating film, 8024: third insulating film, 8026: conductive film, 8026a: first conductive film, 8026b: second conductive film, 8028: conductive film, 8028a: first conductive film, 8028b: second conductive film, 8030: insulating film, 8032: conductive film, 8034: p-type thin film transistor, 8036: n-type thin film transistor, 8038: insulating film, 8040: conductive film, 8042: insulating film, 8044: element group, 8046: opening, 8048: first sheet material, 8050: second sheet material, 8052: third sheet material, 8054: first wiring, 8056: second wiring, 8058: third wiring, 8060: contact hole, 8062: semiconductor film